Notice of Allowability	Application No.	Applicant(s)	
	10/748,965	ZHANG, CHI	
	Examiner	Art Unit	
	Din A Lon	4742	
·	Rip A. Lee	1713	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in t or other appropriate commun IGHTS. This application is sul	his application. If not included ication will be mailed in due course. I	Γ ΗΙS nitiative
1. This communication is responsive to <u>September 5, 2007</u> .			
2. The allowed claim(s) is/are <u>26-29</u> .			
 3. ☐ Acknowledgment is made of a claim for foreign priority unalled all blacks and blacks and blacks are considered as a claim for foreign priority unalled all blacks are considered as a claim for foreign priority unalled all blacks. 1. ☐ Certified copies of the priority documents have a claim for foreign priority unalled and blacks. 2. ☐ Certified copies of the priority documents have a claim for foreign priority unalled and blacks. 	e been received.		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the			
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
4. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which give)F
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.			
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached			
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).			
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s)			
1. Notice of References Cited (PTO-892)		rmal Patent Application	•
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Sun Paper No./M	ail Date	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🛭 Examiner's A	mendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛭 Examiner's S	atement of Reasons for Allowance	
of Biological Material	9.		
		•	
			•

Application/Control Number: 10/748,965

Art Unit: 1713



An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John H. Lamming on September 10, 2007.

Claim 1, line 3 replace "an effective" with "a conductivity varying"

Page 3

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: Claims 26-29 are allowed over the closest references cited below.

The present invention is drawn to a method for varying conductivity of poly(3,4-ethyledioxythiophene)/poly(styrenesulfonate) layer cast from aqueous solution onto a substrate, said method comprising adding an effective amount of at least one organic co-solvent to said aqueous solution, wherein said organic co-solvent comprises an amine solvent.

Kim et al. (Synthetic Metals, 2002) teaches a process of adding an effective amount of DMF co-solvent to an aqueous solution of PEDOT/PSS.

Cloots *et al.* (EP 1 003 179) teaches a process of adding an effective amount (between 0.1 to 49 wt %) of aprotic cosolvent to an aqueous solution of PEDOT/PSS. Aprotic solvents include NMP, DMF, and DMA.

The solvents DMF, NMP, and DMA are amide solvents rather than amine solvents. Therefore these references fail to teach or fairly suggest the subject matter of the instant claims.

Lessner *et al.* (U.S. 6,001,281) which discloses polymerization of 3,4-ethylenedioxythiophene in a solvent mixture containing 1-butanol, 2-propanol, and pyridine (16/63.4/0.6 proportions). Clearly, the prior art does not teach the subject matter of the instant claims.

Kirchmeyer *et al.* (U.S. 2005/0012068) discloses solutions of polythiophenes containing organic solvent and at least one basic compound selected from primary, secondary, and tertiary amines or pyridine. The reference does not antedate Applicant's priority date.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/748,965

Art Unit: 1713

Page 4

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Rip A. Lee whose telephone number is (571)272-1104. The

examiner can be reached on Monday through Friday from 9:00 AM - 5:00 PM. If attempts to

reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be

reached at (571)272-1114. The fax phone number for the organization where this application or

proceeding is assigned is (571)273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on the access to the

Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).

ral

September 10, 2007

DAVID W. WU SUPERVISORY PATENT EXAMINER

TECHNOLIDAY CONTENTS 1700